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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/063,773	05/11/2002	Wei-Pin Chuang	CEIP0042USA	1062

27765 7590 08/05/2004

NAIPO (NORTH AMERICA INTERNATIONAL PATENT OFFICE)
P.O. BOX 506
MERRIFIELD, VA 22116

EXAMINER

MENGISTU, AMARE

ART UNIT PAPER NUMBER

2673

DATE MAILED: 08/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/063,773	CHUANG, WEI-PIN	
	Examiner	Art Unit	
	Amare Mengistu	2673	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|--|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____ | 6) <input type="checkbox"/> Other: ____ |

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the **“a computer circuit”; “a processor” and “memory”; “ a touch screen ...electrically connected to the computer” and “a peripheral module comprising a case and input/ output (I/O) peripheral circuit removably and electrically connected to the socket”** must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets are required in reply to the Office action to avoid abandonment of the application. Any amended replacement-drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as “amended.” If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled “Replacement Sheet” in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the examiner does not accept the changes, the applicant will be notified and informed of

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any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

3. Claims 1-6 are rejected less than 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The specification does not provide support for the recitation of claim1, lines 13-15 **"a peripheral module comprising a case and input/output (I/O) peripheral circuit removably and electrically connected to the socket"**. The disclosure does not enable one skill in the art at the time of the invention was made how to make or use that the *peripheral module and input/output (I/O) peripheral circuit can removably and electrically connected to the socket.*

Claim Rejections - 35 USC § 103

4. Claims 1-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Adair et al (6,424,369)** in view of **Narayanaswami (6,657,654)**.

As to claim 1, **Adair et al** (hereinafter **Adair**) discloses a personal digital assistant (PDA) comprising:

a rectangular housing having four corners and a front side facing towards a user (see, figs. 2 and 3);

a computer circuit comprising a processor and a memory installed in the housing for providing data processing services (fig.4 (82); (83,84,86 and 88));

a touch screen installed on the front side of the housing and electrically connected to the computer circuit for receiving a signal inputted by the user and for displaying pictures (figs.2 and 3 (26,28));

a socket installed at one of the four corners and electrically connected to the computer circuit (fig.2 (35)).

Adair has failed to teach a peripheral module comprising a case and an input/output (I/O) peripheral circuit removably and electrically connected to the socket; wherein when the peripheral module is installed in the socket, the case of the peripheral module couples with the corner of the housing to form an integrated corner of the housing.

However, the patent of **Narayanaswami** clearly teaches that it is well known for PDA to have a peripheral module (fig.2) comprising a case and an input/output (I/O) peripheral circuit (fig.2 (112)) removably and electrically connected to the socket (fig.2

(138)); wherein when the peripheral module is installed in the socket, the case of the peripheral module couples with the corner of the housing to form an integrated corner of the housing (see, fig.6)(since the claim limitation is clear as rejected USC 112 1st above, the claim interpretation is based upon Examiner's best understanding).

Therefore, it would have been obvious to one skill in the art at the time of the invention was made to have been motivated to use the removable peripheral module of **Narayanaswami** into the PDA system of **Adair**, since this is **an alternative way of installing** a camera in a PDA.

As to claim 2, **Narayanaswami** teaches that the peripheral module is installed at the base of the housing (see, figs.2 and 6). **Narayanaswami** did not expressly detailed that the peripheral module is installed at a left corner of an upper side or a right corner of an upper side of the housing. However, this is an engineering choice of design, depending upon individual's choice as to where the peripheral module to be installed.

As to claims 3,4 **Narayanaswami** discloses that the peripheral module is an image input module for sensing an image in front of the PDA and inputting the image into the computer circuit (see, fig.4 (104) (208,210)) and a camera lens and an image sensor, and the image sensor comprises a charge-coupled device (CCD) (also see, Abstract, fig.2 (116) (132)).

As to claim 5, **Narayanaswami also teaches** the peripheral module is a radio frequency module for transmitting a radio signal (col.4, lines 40-53).


In regard to claim 6, **Narayanaswami** further disclose a control key for allowing the user to control the PDA (fig.1 (16)).

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5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amare Mengistu whose telephone number is (703) 305-4880. The examiner can normally be reached on M-F, T-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (703) 305-4938. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Amare Mengistu
Primary Examiner
Art Unit 2673

A.M

July 30, 2004